PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY					- NSI				
То:						F	PCT	SLATTON	
					INTER		OPINION OF T SEARCHING A	THE '	
						(PCT	Rule 43bis.1)		
<u>.</u>					Date of mailin		form PCT	r/ISA/210	
Applica	nt's or a	gent's file referenc	e e		FOR FURTHER ACTION				
G16	0001	LOLAW			See paragraph 2 below				
		plication No.		International filing date	•		tate (day/month/yea	ar)	
PCT	/JP2	2006/300	711	19.01.2006	6 20.01.2005				
Internati	onal Pa	tent Classification	(IPC) or both	national classification ar	nd IPC				
F16H53/02									
Applicat OTI		CORPORAT	ION		,			****	
1.	This o	pinion contains in	ndications relat	ing to the following item	s:				
	\boxtimes	Box No. I	Basis of the	opinion					
		Box No. II	Priority	-					
,	$\overline{\Box}$	Box No. III	Non-establis	hment of opinion with re	gard to novelty, i	nventive step an	d industrial applica	ability	
	$\overline{\Box}$	Box No. IV							
Box No. V Rea			Reasoned st	ack of unity of invention easoned statement under Rule 43 <i>bis.</i> I(a)(i) with regard to novelty, inventive step or industrial plicability; citations and explanations supporting such statement					
		Box No. VI	Certain doci	oments cited					
		Box No. VII	Certain defe	cts in the international ap					
		Box No. VIII	Cortain obse	rvations on the internation					
2.	FURT	THER ACTION							
	If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.								
:	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.								
	For further options, see Form PCT/ISA/220.								
3. For further details, see notes to Form PCT/ISA/220.									
Name a	nd maili	ing address of the	ISAJP	Date of completion	or this opinion	Authorized offi	icer		
						l,			

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2006/300711

Box	x No. I	Basis of this opinion					
1.	With	regard to the language, this opinion has been established on	the basis of:	·			
		the international application in the language in which it was	•	·			
		the translation of the international application into	·	, which is the language of a			
	_	translation furnished for the purposes of international search	(Rulc 12.3(a) and 23.1(b)).				
2.	With inven	regard to any nucleotide and/or amino acid sequence of the control	lisclosed in the international application	and necessary to the claimed			
	a.	type of material					
		a sequence listing					
	1	table(s) related to the sequence listing					
	b.	format of material	•				
		On paper					
		in electronic form					
	c.	time of filing/furnishing					
		contained in the international application as filed	•				
		filed together with the international application in elec	tronic form				
		furnished subsequently to this Authority for the purpo	ses of search				
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.						
4.	Addi	tional comments:					
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2006/300711

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. Statement							
Novelty	(N)	Claims	3, 4	YES			
		Claims	1, 2, 5	NO			
Inventive step (IS)		Claims		YES			
		Claims _	1, 2, 4, 5	NO			
Industrial applicability (IA)		Claims _	. 1-5	YES			
·		Claims _		NO			

Citations and explanations:

Document 1: JP 2001-293531 A (Toyota Motor Corp.), 23
October 2001, paragraph [0047], fig. 9
(Family: none)

Document 2: JP 2002-257149 A (Toyota Motor Corp.), 11
September 2002, paragraph [0024], fig. 1-3
(Family: none)

Document 3: JP 2000-329214 A (Mitsubishi Materials Corp.), 30 November 2000, paragraph [0015], fig. 3, 5 (Family: none)

The inventions set forth in claims 1 and 5 lack novelty and do not involve an inventive step in the light of either of documents 1 and 2 cited in the international search report. Documents 1 and 2 disclose inventions which are the same as the inventions set forth in claims 1 and 5.

The invention set forth in claim 2 lacks novelty and does not involve an inventive step in the light of document 1 cited in the international search report.

Document 1 discloses an invention which is the same as the invention set forth in claim 2.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2006/300711

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The invention set forth in claim 4 does not involve an inventive step in the light of documents 1 and 3 cited in the international search report. A feature wherein the hardness of the inner surface of a cam piece inner hole is greater than that of a shaft is disclosed in document 3

The invention set forth in claim 3 is novel and involves an inventive step relative to the documents cited in the international search report. Said documents neither disclose nor suggest a feature wherein larger-diameter bypass parts are formed at the portions of the inner hole which are positioned inside where the circular outer peripheral surface of the cam piece graduates into the cam lobe part, so that when the cam piece is affixed to the drive shaft it does not make contact with the outer peripheral surface of the drive shaft.